APRIL/MAY 2025

23PCS13 — PYTHON PROGRAMMING

Time : Three hours Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What are the features and applications of Python?
2. List out the Operators used in Python.
3. Write the syntax and usage of "for" loop.
4. What is meant by Namespaces?
5. List some built-in Modules in Python.
6. What is Name Mangling?
7. What are Binary files?
8. Define the term Database.
9. Define the term TCP/IP.
10. What are Sockets?

Shanmuga Industries Arts & Science College T.V.Malai

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Explain the Data types in Python.

Or

(b) What is the difference between Lists and Tuples? Give example for their usage.

12. (a) How to perform a user input in Python? Explain with an example.

Or

(b) Write a small code to illustrate "try" and "except" statements in Python.

13. (a) Explain about the import statement in Modules.

Or

(b) What are Modules in Python? Explain.

14. (a) Briefly discuss about the functions carried out by the Web servers.

Or

(b) Differentiate between Structured Text Files and Structured Binary Files.

Shanmuga Industries Arts & Science College T.V.Malai

15. (a) Explain how the "write" method works on a file.

Or

(b) Discuss on MapReduce and its features.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Describe about Interpreter and interactive mode in Python with example.

17. Explain Call by value and Call by reference methods in Python.

18. Expound the use of Exception handling in Python.

19. Discus on Relational database and its features in detail.

20. Describe about Publish subscribe model in detail.

———————